

Title (en)
PRODUCTION OF FOAMED COMPOSTIONS CONTAINING GYPSUM

Title (de)
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Title (fr)
PRODUCTION DE COMPOSITIONS EXPANSEES CONTENANT DU GYPSE

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Application
EP 99921971 A 19990514

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Abstract (en)
[origin: WO9958466A1] A foamed gypsum composition and process for making a foamed gypsum composition, comprising: (I) combining water and an amphoteric surfactant of formula (a) or (b), whereby (a) represents: $R_{<4>}-(OC_3H_6)_x-(C(O)NH(CH_2)_{1-3})_y-N(Z_{<1>})(Z_{<2>})_{0-1}-ZCOOX$, whereby (b) represents: $R_{<4>}-(OC_3H_6)_x-(C(O)NH(CH_2)_{1-3})_y-N(Z_{<1>})(Z_{<2>})_{0-1}-ZSO_3X$, wherein X is -H, a sodium, calcium, potassium, lithium or ammonium cation, or an amine of the formula $-N_{<+>}H(C_{1-20} \text{ alkyl})_2$ or $N_{<+>}H_2(C_{1-20} \text{ alkyl})$; or when a $Z_{<2>}$ group is present there is no X group on -ZCOOX; $R_{<4>}$ is straight or branched alkyl or alkylene, or cyclic or heterocyclic aromatic which is optionally substituted with alkyl, and contains 4 to 40 carbon atoms and 0-5 carbon-carbon double bonds; x is 0-1, y is 0-1, and x+y is 0-1; $Z_{<1>}$ and $Z_{<2>}$ are independently of each other H, C_fH_{2f+1} , or $C_fH_{2f}OH$, wherein f is 1 to 6 or, in formula (a), one of $Z_{<1>}$ and $Z_{<2>}$ may further be -ZCOOX, where Z is $(CH_2)_f$, $CH_2CH_2OCH_2CH_2$ or $CH_2CHOHCH_2$; and (II) foaming the resulting combination, provided that either: (A) the water in step (I) contains calcined gypsum slurried therein, and the foaming is carried out during or after the combining of the slurry with the amphoteric surfactant of formula (a) or (b), or (B) the process during or after step (II) further comprises an additional step (III) combining the product of step (II) and an aqueous slurry of calcined gypsum.

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